

U.S. PATENT APPLICATION

INVENTION : CHILD SAFETY CLIP

INVENTOR(S) : John A. Crane, Judith A. Crane, and Dwight Priest

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VIII. CLAIMS

What is claimed is:

- 1 1. A child safety clip, comprising:
 - 2 an elongated member having two opposed ends, each opposed end forming a loop
 - 3 therein;
 - 4 first means for opening and closing the loop in each opposed end;
 - 5 whereby, the elongated member enabling the two opposed ends to deform upon the
 - 6 application of a second means for opening the loop in each opposed end, the deformation of
 - 7 the elongated member dependent upon the second means for opening and, upon the second
 - 8 means for opening being released, the elongated member assuming its original orientation for
 - 9 closing and continued use.
- 1 2. The child safety clip of Claim 1 wherein the means for opening and closing the loop
- 2 in the two opposed ends is by a latch.

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1 3. The child safety clip of Claim 2 wherein the latch in the loop of one opposed end
2 comprises a first end and a second end, the first end having a pair of opposed wedge
3 extensions forming a channel between them and the second end having a protruding member,
4 the protruding member of the second end being received into the channel between the pair of
5 opposed wedges for releasably retaining the protruding member in the channel.

1 4. The child safety clip of Claim 2 wherein the latch in the loop of the other opposed end
2 comprises reciprocal U-shaped jaws for interconnecting one with the other for opening and
3 closing the loop in the other opposed end.

1 5. The child safety clip of Claim 1 wherein the second means for opening the loop in
2 each opposed end is selected from the group consisting of a pushing force, a pulling force,
3 a twisting force, and any combination thereof.

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1 6. A child safety clip, comprising:
2 a base having two opposed sides;
3 a first member extending outwardly from one of the two opposed sides, the first
4 member forming a first loop;
5 a latch formed in the first loop for opening and closing the first loop, the latch
6 comprised of a first latch member and a second latch member, the first latch member and the
7 second latch member connecting to form a closed position and separating to form an open
8 position;
9 a second member extending outwardly from the other of the two opposed sides, the
10 second member forming a second loop;
11 means for opening and closing the second loop; and
12 whereby, upon the application of a force, the first member deforms causing the first
13 latch member and the second latch member to separate from the closed position to the open
14 position, the degree of separation between the first and second latch members dependent upon
15 the magnitude of the force and, upon release of the force, the first member assuming its
16 original orientation with the latch returning to the closed position.

1 7. The child safety clip of Claim 6 wherein the first member comprises a hook and an
2 arm, the first latch member formed into the hook and the second latch member formed into
3 the arm.

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1 8. The child safety clip of Claim 6 wherein either or both of the hook and the arm bend
2 or flex enabling the deformation of the first member.

1 9. The child safety clip of Claim 6 wherein the means for opening and closing the second
2 loop is identical to the latch in the first member.

1 10. The child safety clip of Claim 6 wherein the means for opening and closing the second
2 loop is a clasp formed in the second loop, the clasp comprising reciprocal U-shaped
3 interconnecting jaws to form the second loop in the closed position.

1 11. The child safety clip of Claim 10 wherein, upon the application of the force, the
2 second member deforms causing the reciprocal U-shaped interconnecting jaws to separate
3 from the closed position to the an open position, the degree of separation between the
4 reciprocal U-shaped interconnecting jaws dependent upon the magnitude of the force and,
5 upon release of the force, the second member assuming its original orientation with the clasp
6 returning to the closed position.

1 12. The child safety clip of Claim 11 wherein the force is selected from the group
2 consisting of a pushing, a pulling, a twisting, and any combination thereof.

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1 13. The child safety clip of Claim 6 wherein the child safety clip is made of a durable
2 plastic material.

1 14. The child safety clip of Claim 6 wherein the first member has a width that tapers
2 outwardly from the base to the first loop.

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1 15. A child safety clip, comprising:
2 a base having two opposed sides;
3 a first member extending outwardly from one of the two opposed sides, the first
4 member having an anchoring loop at the opposite end of the base for anchoring to an item
5 with a closed loop;
6 a latch formed in the anchoring loop;
7 means for opening and closing the latch of the first loop;
8 a second member extending outwardly from the other of the two opposed sides, the
9 second member having a holding loop at the opposite end of the base for carrying a desired
10 article;
11 a clasp formed in the second loop;
12 means for opening and closing the clasp of the second loop;
13 whereby, upon the application of a force, the latch deforms creating an opening in the
14 anchoring loop thereby releasing the item and the clasp deforms creating an opening in the
15 holding loop thereby releasing the desired article without either the first member or the
16 second member breaking, the first and second member having memory to return to its original
17 shape.

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1 16. A child safety clip, comprising:
2 an elongated member having a first portion and a second portion;
3 the first portion having a deformable hook and an arm for forming a first loop;
4 a latch formed in the first loop;
5 means for opening and closing the latch of the first loop to receive or release an item;
6 the second portion having two finger projections and a ring for forming a second loop;
7 a deformable clasp formed in the second loop;
8 means for opening and closing the clasp of the second loop to receive or release a
9 carrying article;
10 whereby, upon the application of a force, the hook and the arm of the first portion
11 deforms causing a first opening in the first loop at the latch to release the item and the clasp
12 of the second portion deforms causing a second opening in the second loop to release the
13 carrying article, the first portion and the second portion succumbing to the application of the
14 force without breaking, the first and second portions having memory to return to its original
15 shape.